IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION EXAMINING OPERATIONS

Applicant: Baoxin et al.   Group Art Unit: 2672

Serial No.: 09/934,004   Examiner:

Filed: August 20, 2001   Attorney Docket No.
                                  KLR:7146.122

Title: SUMMARIZATION OF BASEBALL VIDEO CONTENT

INFORMATION DISCLOSURE STATEMENT
IN ACCORDANCE WITH 37 CFR §1.98

                                  1600 ODS Tower
                                  601 S.W. Second Avenue
                                  Portland, Oregon 97204-3157
                                  December 5, 2001

Box Patent Application
Commissioner for Patents
Washington, D.C.   20231

Dear Sir:

     Applicant submits herewith copies of patents and
publications of which he is aware and which he desires to have
considered by the Patent Office in accordance with 37 CFR
§1.97. In accordance with 37 CFR §1.97(b)(3), this
Information Disclosure Statement is being submitted before the
mailing date of a first office action on the merits of the
above-identified application.

     In accordance with 37 CFR §1.97(h), the filing of
this Information Disclosure Statement will not be regarded as
an admission that any patent or combination of patents
referred to herein is, or is considered to be, material to
patentability under 37 CFR §1.56(b) unless specifically
designated as such.

A list of the patents enclosed herewith is set forth on the attached two pages of Form PTO-1449 (Modified).

The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor and the information in his file.

Respectfully submitted,

Kevin L. Russell
Attorney for Applicant
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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231, on December ____, 2001.

Dated: December ____, 2001

Kevin L. Russell

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO. KLR: 7146.122	SERIAL NO. 09/934,004
APPLICANT: Baoxin et al.	
FILING DATE 08/20/01	GROUP 2672

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LVN	AA	US Pat. No. 4,183,056	Jan. 8, 1980	Evans et al.			
	AB	US Pat. No. 5,805,733	Sep. 8, 1998	Wang et al.			
	AC	US Pat. No. 5,956,026	Sep. 21, 1999	Ratakonda			
	AD	US Pat. No. 5,995,095	Nov. 30, 1999	Ratakonda			
	AE	US Pat. No. 6,141,041	Oct. 31, 2000	Carlbom et al.			
	AF	US Pat. No. 6,141,060	Oct. 31, 2000	Honey et al.			
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AJ							
	AM							
	AN							
	AO							
	AP							
	AQ							
	AR							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LVN			J. Canny, "A Computational Approach to Edge Detection",
			IEEE Trans. Pattern Anal. Machine Intelligence, Vol. 8, pp. 679-698, 1986
			Y. Wang, Z. Liu, and J-C Huang,"Multimedia Content Analysis - Using bother Audio and Visual Cues,"
			IEEE Signal Processing Magazine, Vol. 17, No. 16, pp. 12-36, Nov. 2000
			D.D. Saur, Y-P. Tan, S.R. Kulkarni and P. Ramadge, "Automatic Analysis and Annotation of Basketball Video",
			Proc. Of SPIE, Vol. 3022, pp. 176-187, at least one year prior to the filing date

			D. Yow, B-L. Yeo, M. Yeung and B. Liu, "Analysis and Presentation of Soccer Highlights From Digital Video",
			Proc. 2nd Asian Conference on Computer Vision, 1995
			T. Kawashima, K. Tateyama, T. Iijima and Y. Aoki, "Indexing of Baseball Telecast for Content-based Video Retrieval",
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			Proc. International Conference on Image Processing, 1999
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			M.R. Naphade, R. Mehrotra, A.M. Ferman, J.Warnick. T.S. Huang and A.M. Tekalp, "A High-Performance Shot Boundary Detection Algorithm Using Multiple Cues", International Conference on Image Processing, 1998
			Proc. International Conference on Image Processing, 1998
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			Y. Rui, A. Gupta, A. Acero, "Automatically Extracting Highlights for TV Baseball Programs",
			Microsoft Research, Redmond, WA, 2000
			B. Li and M.I. Sezan, "Event Detection and Summarization in Sports Video",
			Sharp Laboratories of America, Camas, WA , 2001, at least one year prior to the filing date
			H. Pan, P. van Beek and M.I. Sezan, "Detection of Slow-Motion Replay Segments in Sports Video for Highlights Generation",
			Sharp Laboratories of America, Camas, WA, at least one year prior to the filing date
			J.S. Boreczky and L.D. Wilcox, "A Hidden Markov Model Framework for Video Segmentation Using Audio and Image Features",
			FX Palo Alto Laboratory, Palo Alto, CA, at least one year prior to the filing date
			S. Eickeler and S. Muller, "Content-Based Video Indexing of TV Broadcast News Using Hidden Markov Models",
			Gerhard-Mercator University Duisburg, Germany, Int'l Conf on Acoustic, Speech and Signal Processing, 1999
			W. Wolf, "Hidden Markov Model Parsing of Video Programs",
			Proc. Int. Conf. Acoustic, Speech, and Signal Processing, 1997
			F.R. Kschischang, "Factor Graphs and the Sum-Product Algorithm",
			IEEE Transactions on Information Theory, Vol. 47, No. 2, February 2001

EXAMINER		DATE CONSIDERED 4/25/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement --PTO-1449 (Modified)
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